



Material Safety Data Sheet

NFPA	Transport Symbol
	Not regulated

Preparation Date 09-Jun-2006

Revision Date 11-Mar-2008

Revision Number 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code 1205610
Product Name BETA NAPHTHOL
Synonyms 2-Naphthalenol
Formula C10H8O
CAS Number 135-19-3
Contact
ACETO CORPORATION
One Hollow Lane
Lake Success, NY 11042-1215
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2. HAZARDS IDENTIFICATION

Emergency Overview

Harmful by inhalation. Harmful if swallowed. May be harmful in contact with skin. Irritant. Dangerous for the environment. Very toxic to aquatic organisms. Sensitivity to light.

Appearance White, to, Brown, Crystalline, Powder.

Physical State Solid.

Odor Phenol-like

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Mexico - Grade

Slight risk, Grade 1

Potential Health Effects

Principle Routes of Exposure

Eye contact, Skin contact, Inhalation, Ingestion.

Acute Effects

Eyes

Irritating to eyes. Visual disturbances. Avoid contact with eyes.

Skin	May be harmful by skin contact. Irritating to skin. Avoid contact with skin.
Inhalation	Harmful by inhalation. Irritating to mucous membranes. Irritating to respiratory system.
Ingestion	Harmful if swallowed. May cause irritation of the digestive tract.
Chronic Effects	Abdominal pain. Nausea. Vomiting. Convulsions. Intestinal and percutaneous absorption may lead to severe nephritis, liver injury and acute hemolytic anemia. Depending on intensity of exposure, effects may vary from mild irritation to severe destruction of tissue.

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions Not available

Interactions with Other Chemicals Not available

Potential Environmental Effects Dangerous for the environment. Very toxic to aquatic organisms. Avoid release to the environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS Number 135-19-3

Formula C10H8O

Hazardous Components

Chemical Name	CAS-No	Weight %
2-Naphthol	135-19-3	60 - 100

4. FIRST AID MEASURES

General Advice	Show this safety data sheet to the doctor in attendance.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Consult a physician.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Consult a physician.
Ingestion	Do not induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Consult a physician.
Notes to Physician	Treat symptomatically
Protection of First-aiders	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

5. FIRE-FIGHTING MEASURES

Flammable Properties	Not available
Suitable Extinguishing Media	Carbon dioxide (CO2). Dry powder. Foam.
Unsuitable Extinguishing Media	Not available
Hazardous Combustion Products	Thermal decomposition or combustion may produce hazardous gases and/or materials.

Explosion Data

Sensitivity to mechanical impact	Not available
Sensitivity to static discharge	Not available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

NFPA

Health 2

Flammability 1

Instability 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. In case of insufficient ventilation, wear suitable respiratory equipment.
Environmental Precautions	Local authorities should be advised if significant spillages cannot be contained.
Methods for Containment	Not available
Methods for Cleaning up	Evacuate personnel to safe areas. Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Clean contaminated surface thoroughly.
Other Information	Not applicable

7. HANDLING AND STORAGE

Handling	Use only in an area equipped with a safety shower. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation. Do not breathe vapours/dust. Avoid contact with skin, eyes and clothing. Avoid repeated exposure.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from light. May discolor on exposure to light.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Engineering Controls	Ensure adequate ventilation, especially in confined areas.
Personal Protective Equipment	
Eye/face Protection	Tightly fitting safety goggles.
Skin Protection	Protective gloves.
Respiratory Protection	In case of insufficient ventilation wear suitable respiratory equipment.

General Hygiene Considerations

When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White, to, Brown, Crystalline, Powder
Physical State	Solid
Odor	Phenol-like
pH	Not available
Flash Point	153°C
Method	Closed cup
Autoignition Temperature	550°C
Boiling Point/Range	285 - 286°C
Melting Point/Range	121 - 123°C
Flammability Limits in Air	Lower Not available Upper Not available
Vapor Pressure	< 0.1 hPa @ 20 °C
Vapor Density	4.97 g/L
Specific Gravity	1.217 g/cm3
Water Solubility	0.6g/L @ 25 °C
Reactivity in Water	Not available
Molecular Weight	144.17

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions
Conditions to Avoid	Heat, flames and sparks. Protect from light. Contact with metal may evolve flammable hydrogen gas.
Incompatible Materials	Strong oxidizing agents. Strong bases. Acid chlorides. Acid anhydrides. Antipyrine. Camphor. Ferric salts. Menthol. Phenols. Potassium permanganate. Urethane. Acids.
Hazardous Decomposition Products	Carbon monoxide, Carbon dioxide (CO2).
Possibility of Hazardous Reactions	None under normal processing

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
2-Naphthol	= 1960 mg/kg Oral LD50 Rat	> 10 g/kg Dermal LD50 Rabbit	= 2.2 mg/L Inhalation LC50 Rat 4 h > 770 mg/m ³ Inhalation LC50 Rat 1 h

Chronic Toxicity

Carcinogenicity	There are no known carcinogenic chemicals in this product
Irritation	Skin,rabbit: 500 mg 24H MLD; Eye,rabbit: 100 mg MOD
Corrosivity	Not available
Sensitization	Not available
Neurological Effects	Not available
Mutagenic Effects	Not available
Reproductive Effects	Not available
Developmental Effects	Not available
Target Organ Effects	Eyes.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Dangerous for the environment. Very toxic to aquatic organisms. Avoid release to the environment.

2-Naphthol

Freshwater Algae Data

= 18.8 mg/L EC50 *Selenastrum capricornutum* 4 h

Microtox Data

= 0.22 mg/L EC50 *Photobacterium phosphoreum* 5 min
 = 0.24 mg/L EC50 *Photobacterium phosphoreum* 15 min
 = 0.27 mg/L EC50 *Photobacterium phosphoreum* 30 min

Water Flea Data

= 19.8 mg/L EC50 water flea 48 h Static
 = 3.54 mg/L EC50 *Daphnia magna* 48 h

Persistence / Degradability

Not available

Bioaccumulation / Accumulation Not available

Mobility in Soil Not available

2-Naphthol

log Pow = 2.84

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Contact waste disposal services. Dispose of in accordance with local regulations.

Contaminated Packaging Dispose of in accordance with local regulations. Empty containers should be taken for local recycling, recovery or waste disposal.

US EPA Waste Number Not available

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

MEX Not regulated

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

RID Not regulated

ADR Not regulated

ADN Not regulated

15. REGULATORY INFORMATIONInternational Inventories

U.S.A. (TSCA)	Complies
Canada (DSL)	Complies
EU (ELINCS)	Does not Comply
EU (EINECS)	Complies
Japan (ENCS)	Complies
China	Complies

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Korea (KECL) Complies
 Philippines (PICCS) Complies
 Australia (AICS) Complies

Chemical Name	U.S.A. (TSCA)	Canada (DSL)	EU (EINECS)	EU (ELINCS)
2-Naphthol	Present	Present	205-182-7	-

Chemical Name	Japan (ENCS)	China	Korea (KECL)	Philippines (PICCS)	Australia (AICS)
2-Naphthol	4-355 4-0355	Present	97-3-36	Present	Present

USA**Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any HAPs.

Chemical Name	CAS-No	VOCs
2-Naphthol	135-19-3	Present

State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

State Right-to-Know**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

Not determined

16. OTHER INFORMATION

Prepared By	Environmental Health and Safety, Regulatory Affairs
Preparation Date	09-Jun-2006
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Revision Summary	Not available

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS

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